

**AMENDMENTS TO THE CLAIMS****Claims 1-12. (Canceled)**

Claim 13. **(Previously Presented)** A method for differential diagnosis of autoimmune diseases of the GSE-type or associated with gluten sensitive enteropathy comprising taking a sample and testing the sample for antibodies against human tissue transglutaminase and at least one other transglutaminase molecule selected from FXIIIA, TGk, TGx, TGe and Band 4.2.

Claim 14. **(Previously Presented)** The method of claim 13, wherein the auto immune disease is dermatitis herpetiformis, or morbus Duhring.

Claim 15. **(Currently Amended)** The method of claim 13, wherein the autoimmune disease is selected from a group consisting of the following: AI haemolytic anaemia, AI thrombocytopenic purpura, AI thyroid diseases, and atrophic gastritis – pernicious anaemia, ~~Crohn's disease, colitis ulcerosa, Goodpasture syndrome, IgA nephropathy or IgA glomerulonephritis, myasthenia gravis, partial lipodystrophy, polymyositis, primary biliary cirrhosis, primary sclerosing cholangitis, progressive systemic sclerosis, recurrent pericarditis, relapsing polychondritis, rheumatoid arthritis, rheumatism, sarcoidosis, Sjögren's syndrome, SLE, splenic atrophy, type I (insulin dependent) diabetes mellitus, diabetes mellitus of other types, Wegener granulomatosis, ulcerative colitis, vasculitis (both systemic and cutaneous), and vitiligo.~~

Claim 16. **(Previously Presented)** The method of claim 13, wherein the autoimmune disease is associated with infertility or increased risk of abortions or reduced fetal growth.

**Claims 17-25. (Canceled)**

Claim 26. **(New)** The method of claim 13, wherein the autoimmune disease is selected from a group consisting of the following: Crohn's disease, colitis ulcerosa, Goodpasture syndrome, and IgA nephropathy or IgA glomerulonephritis.

Claim 27. **(New)** The method of claim 13, wherein the autoimmune disease is selected from a group consisting of the following: myasthenia gravis, partial lipodystrophy, polymyositis, and primary biliary cirrhosis.

Claim 28. **(New)** The method of claim 13, wherein the autoimmune disease is selected from a group consisting of the following: primary sclerosing cholangitis, progressive systemic sclerosis, recurrent pericarditis, and relapsing polychondritis.

Claim 29. **(New)** The method of claim 13, wherein the autoimmune disease is selected from a group consisting of the following: rheumatoid arthritis, rheumatism, sarcoidosis, and Sjögren's syndrome.

Claim 30. **(New)** The method of claim 13, wherein the autoimmune disease is selected from a group consisting of the following: SLE, splenic atrophy, type I (insulin-dependent) diabetes mellitus, and diabetes mellitus of other types.

Claim 31. **(New)** The method of claim 13, wherein the autoimmune disease is selected from a group consisting of the following: Wegener granulomatosis, ulcerative colitis, vasculitis (both systemic and cutaneous), and vitiligo.